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| S13 | 111 | S12 and (@rlad<="20030708" @ad<="20030708") | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2006/01/13 13:55 |
| S14 | 135 | (event adj (manager management handling)).ti. and (@rlad<="20030708" @ad<="20030708") | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2006/01/15 15:51 |
| S15 | 27 | ("5664093" "5666481" "5696486" "5758083" "5777549" "5841960" "5845061" "5872911" "5875242" "5892898" "5905715" "5919258" "6112236" "6131112" "6243838" "6324658" "6347374" "6353902" "6446134" "6446222" "6470388" "6473407" "6502131" "6631409" "6643693" "6654914" "6687750"). PN. OR ("6832341").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/01/15 14:43 |
| S16 | 36 | (event adj (manager management handling)).ti. and (@rlad<="20030708" @ad<="20030708")) and (new adj event) | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2006/01/15 15:51 |

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... Raw events generated by various devices and sensors flow into the **event management system** for automated operation (eg, Reference 3), in which raw events are ...

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... it is important to note that no inter-event relation has been investigated and really doesn't appear necessary to establish within the **event management system** ...

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1 [Integrating visualization into event monitoring and analysis in distributed systems management](#)

Stephen L. Howard, James W. Hong, Michael J. Katchabaw, Michael A. Bauer

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(333.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Effective management of distributed computing systems involves monitoring, analysis and control of hosts, networks, and applications. The complexity of these systems calls for innovative tools to enhance the ability of human managers to comprehend the activity within the system in order to facilitate better management. In our research, we explore techniques for visualizing the effects of management activity on a distributed computing environment. Using the visualization tools of the Partial Order ...

2 [Adaptive object-oriented filtering framework for event management applications](#)

Ehab Al-Shaer, Mohamed Fayed, Hussein Abdel-Wahab
March 2000 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available: pdf(125.92 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: design patterns, filtering, frameworks, monitoring

3 [Sensor networks: Fault management in event-driven wireless sensor networks](#)

Linnyer Beatrys Ruiz, Isabela G. Siqueira, Leonardo B. e Oliveira, Hao Chi Wong, José Marcos S. Nogueira, Antonio A. F. Loureiro

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available: pdf(196.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless Sensor Networks (WSNs) have emerged as a new monitoring and control solution for a variety of applications. Although the behavior of a WSN is characterized by the type of its application, a common element exist: faults are a normal fact, not isolated events as in traditional networks. Thus, in order to guarantee the network quality of

service it is essential for the WSN to be able to detect failures and perform something akin to healing, recovering from events that might cause some of i ...

Keywords: fault management, network monitoring, self-management, wireless sensor networks

4 A prototype implementation of a model management system for discrete-event simulation models



Melanie L. Lenard

December 1993 **Proceedings of the 25th conference on Winter simulation**

Publisher: ACM Press

Full text available: [pdf\(885.62 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)



5 Assessment of potential gains in productivity due to proactive reticle management using discrete event simulation



Sungmin Park, John Fowler, Matt Carlyle, Matt Hickie

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**

Publisher: ACM Press

Full text available: [pdf\(121.69 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



6 Construction engineering and project management: Construction engineering and project management III: reasoning about actions and events in situational simulations

Amlan Mukherjee, Eddy M. Rojas

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available: [pdf\(390.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



In this paper we have applied an interval representation of time to represent and reason about activities, events, actions and situations relevant to the construction domain. The first part of the paper formally defines the situational simulation environment and develops a set of temporal axioms which can be used to 1) Express precedence constraints between time intervals and 2) Capture the causal relationships between actions and events. The second part of the paper looks at an agent reasoni ...

7 Session S8.1: power and battery management: Process cruise control: event-driven clock scaling for dynamic power management



Andreas Weissel, Frank Bellosa

October 2002 **Proceedings of the 2002 international conference on Compilers, architecture, and synthesis for embedded systems**

Publisher: ACM Press

Full text available: [pdf\(161.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Scalability of the core frequency is a common feature of low-power processor architectures. Many heuristics for frequency scaling were proposed in the past to find the best trade-off between energy efficiency and computational performance. With complex applications exhibiting unpredictable behavior these heuristics cannot reliably adjust the operation point of the hardware because they do not know where the energy is spent and why the performance is lost. Embedded hardware monitors in the form of ...

Keywords: clock scaling, event counters, power management, scheduling

8 An event-based model of software configuration management



David S. Rosenblum, Balachander Krishnamurthy

May 1991 **Proceedings of the 3rd international workshop on Software configuration management**

Publisher: ACM Press

Full text available: pdf(365.01 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Discrete-event simulation and the event horizon part 2: event list management



Jeffrey S. Steinman

July 1996 **ACM SIGSIM Simulation Digest , Proceedings of the tenth workshop on Parallel and distributed simulation PADS '96**, Volume 26 Issue 1

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(1.00 MB) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The event horizon is a very important concept that applies to both parallel and sequential discrete-event simulations. By exploiting the event horizon, parallel simulations can process events optimistically in a risk-free manner (i.e., without requiring antimeasures) using adaptable "breathing" time cycles with variable time widths. Additionally, exploiting the event horizon can significantly reduce the overhead of event list management that is common to virtually all discrete-event simulation ...

Keywords: SPEEDES, Parallel Simulation, Event List Management, Priority Queues, SPEEDES Queue, Event Horizon

10 Event-Driven Power Management of Portable Systems

Tajana Simunic, Giovanni de Micheli, Luca Benini

November 1999 **Proceedings of the 12th international symposium on System synthesis**

Publisher: IEEE Computer Society

Full text available: pdf(127.27 KB) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

The policy optimization problem for dynamic power management has received considerable attention in the recent past. We formulate policy optimization as a constrained optimization problem on continuous-time Semi-Markov decision processes (SMDP). SMDPs generalize the stochastic optimization approach based on discrete-time Markov decision processes (DTMDP) presented in the earlier work by relaxing two limiting assumptions. In SMDPs, decisions are made at each event occurrence instead of at each di ...

11 Research sessions: stream management: Online event-driven subsequence matching over financial data streams



Huanmei Wu, Betty Salzberg, Donghui Zhang

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(753.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Subsequence similarity matching in time series databases is an important research area


for many applications. This paper presents a new approximate approach for automatic online subsequence similarity matching over massive data streams. With a simultaneous on-line segmentation and pruning algorithm over the incoming stream, the resulting piecewise linear representation of the data stream features high sensitivity and accuracy. The similarity definition is based on a permutation followed by a met ...

12 Event list management - a tutorial

James O. Henriksen

December 1983 **Proceedings of the 15th conference on Winter Simulation - Volume 2**

Publisher: IEEE Press

Full text available:  [pdf\(774.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Proper management of the event list is critically important for achieving execution efficiency in discrete event modelling of computer, telecommunication, and other frequently occurring classes of systems. For such systems, use of a poor event list algorithm can result in horrendous inefficiency. Conversely, replacement of a poor algorithm with a good algorithm can reduce execution times tremendously. For example, in models of telecommunication systems, total run times can easily differ by ...


13 Industrial/government track: Data-driven validation, completion and construction of event relationship networks



Chang-Shing Perng, David Thoenen, Genady Grabarnik, Sheng Ma, Joseph Hellerstein

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available:  [pdf\(267.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Event management is a focal point in building and maintaining high quality information infrastructures. We have witnessed the shift of the paradigm of event management in practice from root cause analysis (RCA) to action-oriented analysis (AOA). IBM has developed a pioneer event management methodology (EMD) based on the AOA paradigm and applied it to more than two hundred production sites with success. Foreseeably, more and more event management professionals will apply AOA in different incarnat ...

Keywords: ERN Construction, ERN Validation, action oriented-analysis, event management methodology, event relationship networks, proactive management, root cause analysis

14 Testing and debugging: Using Hy⁺ for network management and distributed debugging

Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Publisher: IBM Press

Full text available:  [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

A network manager managing a computer network or a programmer attempting to understand and debug a distributed program both must deal with large volumes of data. Visualization is widely believed to help in these and similar tasks. We contend that visualization is indeed useful, but only if accompanied of the following facilities: abstraction, filtering, and layout control. The Hy⁺ visualization system and GraphLog query language provide these facilities. They support not ...

15

Workflow management systems for financial services



Thomas Schael, Buni Zeller

December 1993 **Proceedings of the conference on Organizational computing systems**

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: business process automation, computer supported cooperative work, customer satisfaction, groupware, office automation, office procedure, process reengineering, workflow management technology, workgroup computing

16 Knowledge based fault management for OSI networks



Celia A. Joseph, A. Sherzer, K. Muralidhar

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '90**

Publisher: ACM Press

Full text available: pdf(826.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The OSI Fault Management system (OSIFaM) is an evolving knowledge-based system for fault management of Open System Interconnection (OSI) networks. Our goal is to develop a knowledge-based tool that will reduce the expertise needed to recognize, diagnose and correct faults in OSI networks. For our first implementation, we are focusing on MAP 3.0 networks. This paper provides an overview of fault management in general, a brief survey of other fault management developments, the characteristics ...

17 Session 8: systems support for multimedia: Cooperative run-time management of adaptive applications and distributed resources



Christian Poellabauer, Hasan Abbasi, Karsten Schwan

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(434.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents *Q-fabric*, which is a set of lightweight, kernel-level abstractions for cooperative, distributed resource management and system/application adaptation. The basis of Q-fabric is its kernel-level, anonymous, asynchronous event service. With this mechanism, (1) applications can monitor and manage the local and remote resources they are using, (2) system-level resource managers can customize their actions to meet the needs of individual applications, and (3) policies can be ...

Keywords: OS services, QoS management, adaptation, event service

18 A discrete event simulation for the management of surgical suite scheduling

Alfred W. Jones, Vinod K. Sahney, Ali Kurtoglu

March 1983 **Proceedings of the 16th annual symposium on Simulation**

Publisher: IEEE Computer Society Press

Full text available: pdf(628.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This research into operating room scheduling procedures led to the development of an interactive simulation model written in the simulation language SLAM II. It serves as part of a larger decision support system for the management of hospital surgical suites. The paper presents the problem in detail, describes the systems model, gives an example for a suite of eight rooms and twelve surgical type operations, and shows the structure of the

coding. The methods presented here have w ...

19 Streaming 1: Stream enhancements for the CORBA event service



Desmond Chambers, Gerard Lyons, Jim Duggan

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(519.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

This paper describes a number of enhancements for the standard CORBA Event Service. The basic service definition has been extended to support stream events, multimedia data flows, event fragmentation, quality of service definition, as well as multicast event delivery. The paper evaluates the service performance and describes experiences using the enhanced service in the development of a test application.

Keywords: CORBA, events, groupware and multicast, multimedia, objects, services, streams

20 Modeling methodology b: Distributed simulation and manufacturing: time management issues in cots distributed simulation: a case study

Simon J. E. Taylor, Jon Sharpe, John Ladbroke

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available: pdf(367.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Commercial off-the-shelf (COTS) simulation packages are widely used in industry. Several international groups are currently investigating techniques to integrate distributed simulation facilities in these packages. Through the use of a case study developed with the Ford Motor Company, this paper investigates time management issues in COTS simulation packages. Time management is classified on the basis of the ordering of events that are externally produced to a federate and the ordering of the ...

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